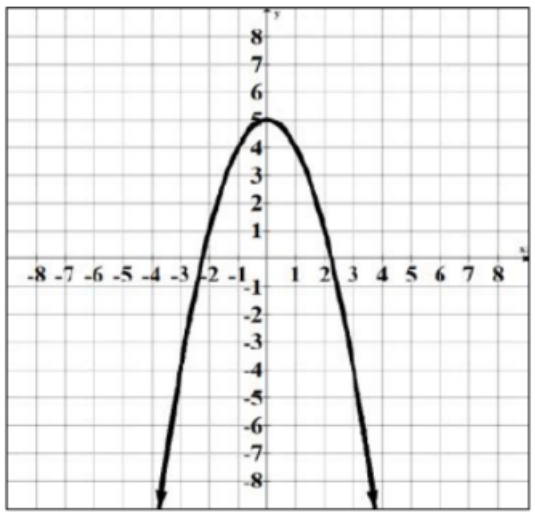
Algebra 2 - Functions Problem Set

Stasya

1.

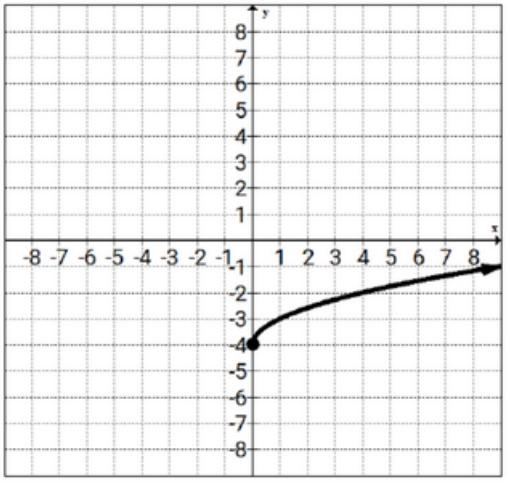


Write the domain, range, and end behavior of this graph.

2. Find the inverse of the function $f(x) = 2(x-5)^2$. If necessary, state the domain restriction.

3. For the function $f(x) = (x+3)^2 - 4$, write the parent function, its transformations, and the domain and range of this function.

4.



$f(x)$ is shown. Draw $f^{-1}x$.

5. Write the inequality $x \in \mathbb{R}$ in set notation and interval notation.

6. For the function $f(x) = -(x-6)^3 + 1$, write the parent function, its transformations, and the domain and range of this function.